

Seal of the Commonwealth of Massachusetts

Bay Colony Rail Trail

Bay Colony Rail Trail Conceptual Planning and Design Study

Needham, MA

Prepared by:
FAY, SPOFFORD & THORNDIKE

Bay Colony Rail Trail

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Agenda

- Welcome & introductions
- BCRTA update
- Study goals and process
- Conceptual design
- Next steps
- Questions



FAY, SPOFFORD & THORNDIKE

Who is FST?

- Full-service, multidisciplined firm
- Recognized leader in trail projects
 - Over 500 miles of bike trails presently in planning, design or construction
- Completed award-winning trail facilities



Nashua River Rail Trail



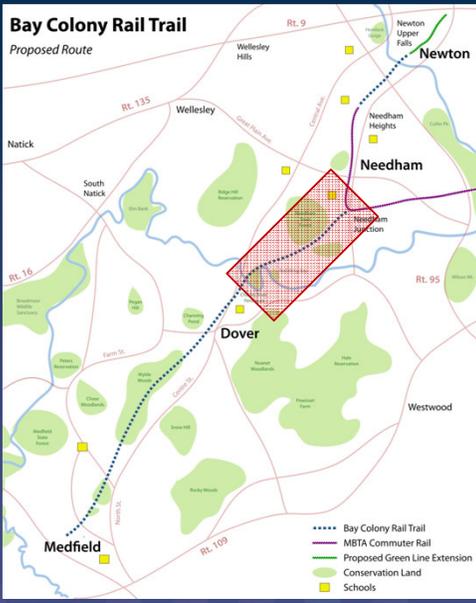
Cape Cod Rail Trail



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Study Goals

- Develop conceptual design for multi-use trail between Needham Junction and Charles River
- Focus on major items of technical interest and concern
- Identify key implementation activities





Study Process

- Evaluated existing site conditions
 - Field investigations
 - Record information
- Developed conceptual design
- Attended coordination meetings
 - BCRT Association
 - Town Departments
 - Massachusetts Bay Transportation Authority (MBTA)



Conceptual Design

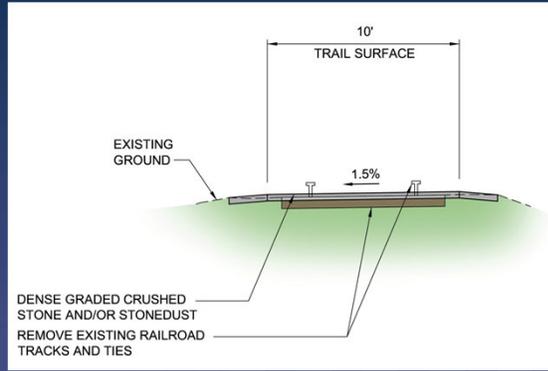
- Trail design
- Parking and access
- At-grade crossings
- Charles River bridge
- Mitigation measures



Trail Cross Section



Existing Conditions



Typical Cross Section

Trail Surface Material



Dense Graded Crushed Stone



Stone Dust Top Course

Trail Surface Material



Stabilized Granular



Pavement



Conceptual Design – Trail Alignment



Southern Trailhead

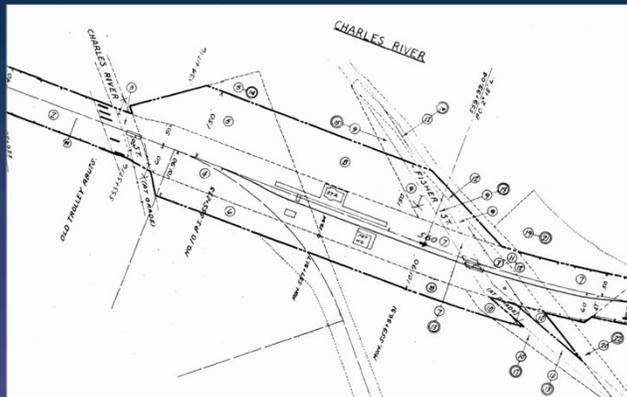


Looking North



Looking South

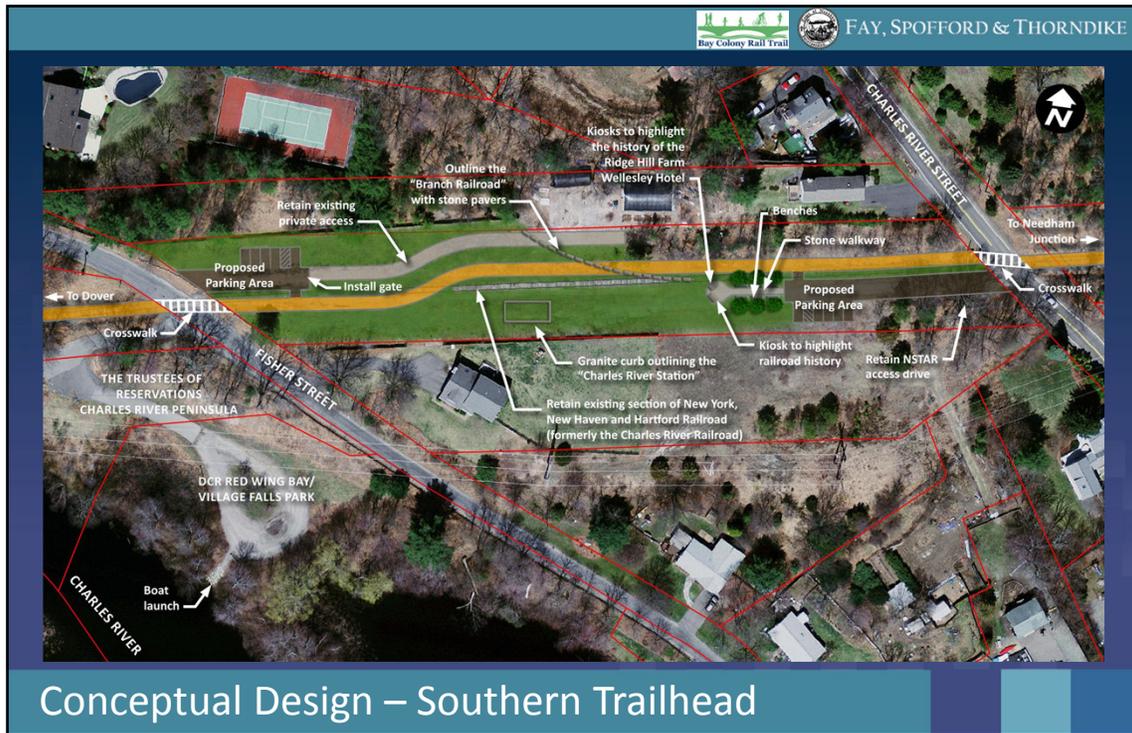
Southern Trailhead

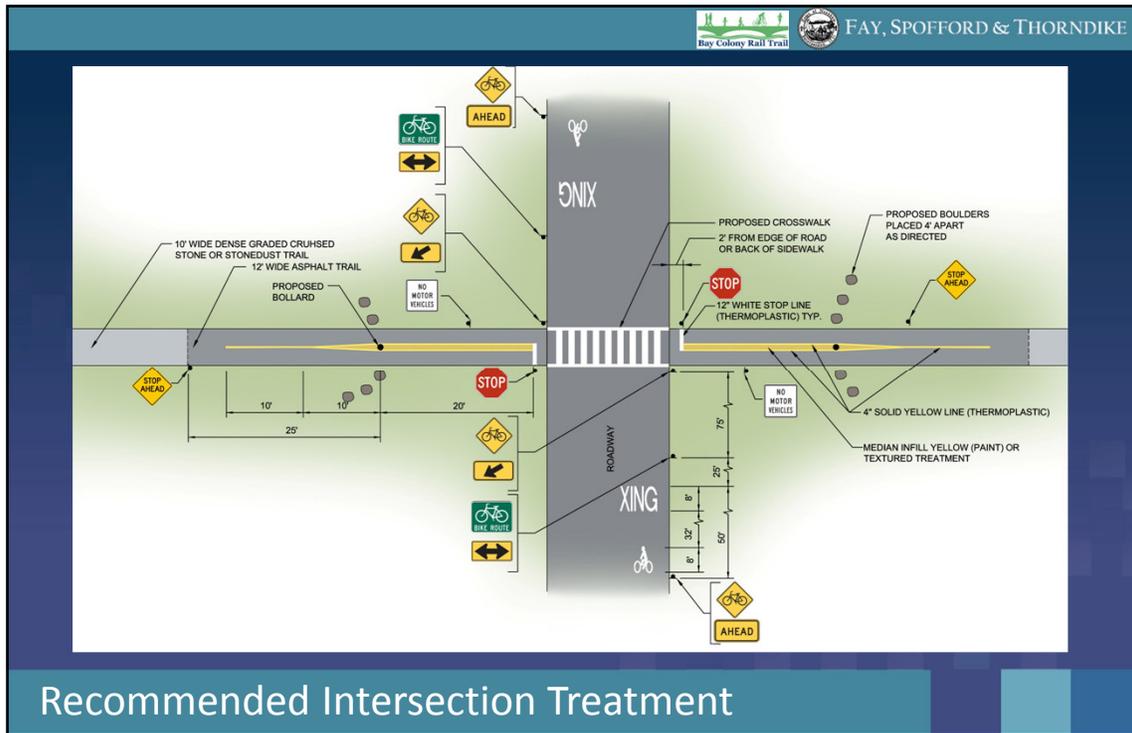


Site of Former Charles River Railroad Station

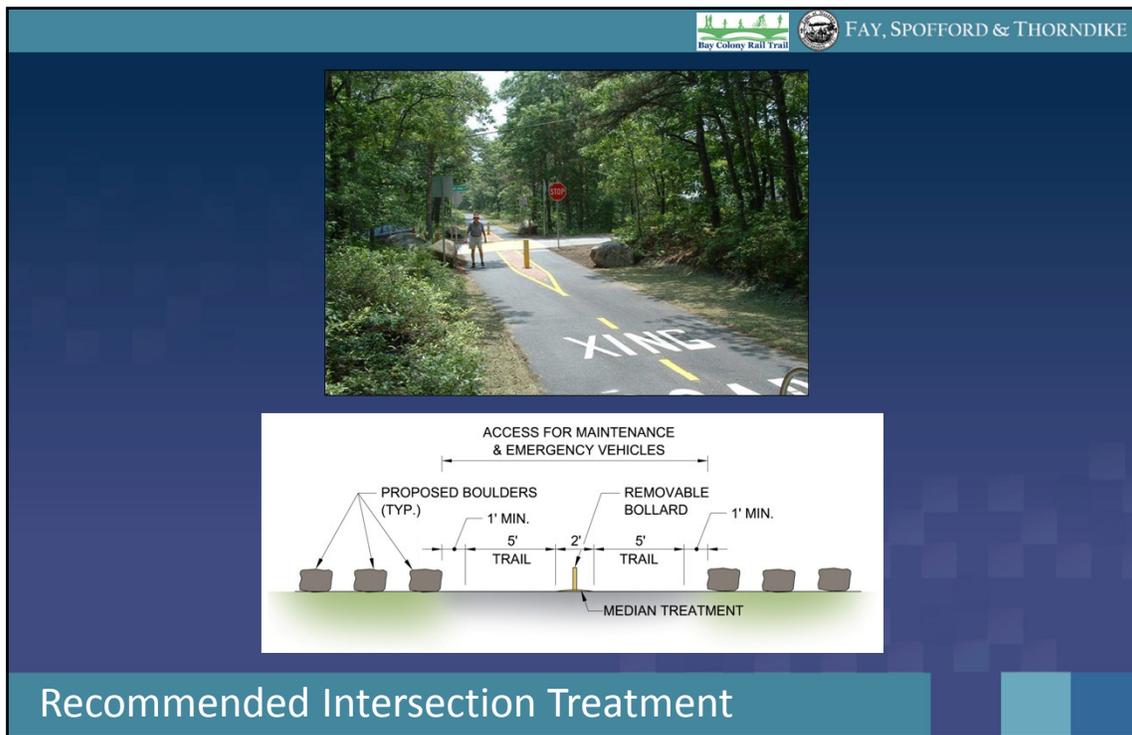


2-mile Branch to Ridge Hill Farms Hotel





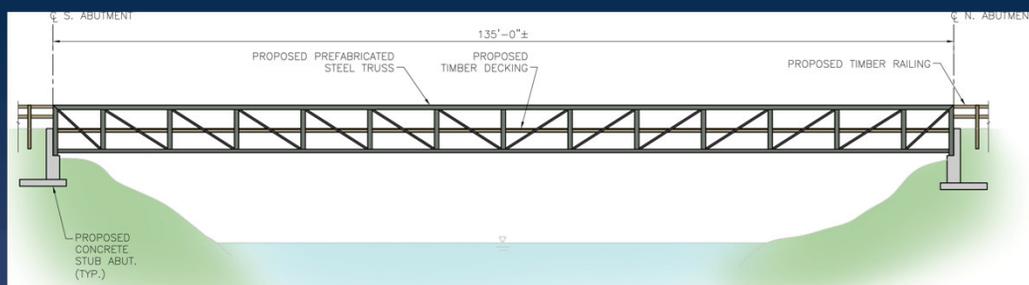
Recommended Intersection Treatment



Recommended Intersection Treatment

Charles River Bridge

- Conducted visual assessment
- Extensive structural degradation of timber elements from rotting
- Evaluated rehabilitation and replacement options
- Recommendations:
 - Replace bridge in long term
 - Create scenic overlook in short term



Prefabricated Steel Truss Replacement Option

Charles River Bridge – Long Term Replacement Option

Next Steps

Questions

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Extra Slides

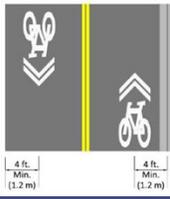
FAY, SPOFFORD & THORNDIKE
Day Colony Rail Trail



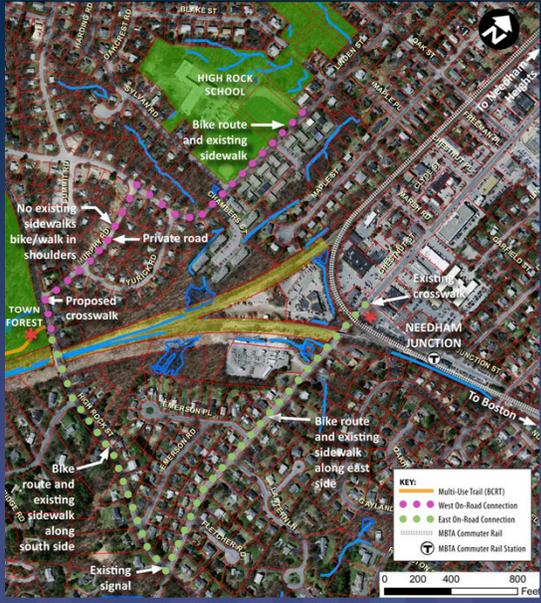
Murphy Road Looking North



Chestnut Street Looking North



"Sharrow" Marking



On-Road Connections